

Comparisons of Job Characteristics

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Production and Processing	6.0	13.1	10.9	< Expanded education and/or training may be required
Chemistry	4.8	10.7	3.8	<< Extensive education and/or training may be required
Mechanical	6.8	9.8	12.6	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	12.2	9.7	< A higher skill level may be required
Operation and Control	5.4	11.9	8.7	<< Extensive development of skills in this area may be required
Quality Control Analysis	5.9	9.2	8.8	0 Current skill level may be sufficient
Equipment Maintenance	3.5	7.1	5.9	< A higher skill level may be required
Equipment Selection	3.3	6.2	3.8	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	12.3	10.5	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.4	8.8	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	10.6	7.5	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	9.3	8.1	<	Some improvement in abilities may be required
Rate Control	3.8	9.0	8.3	0	Current ability level may be sufficient
Glare Sensitivity	2.6	8.9	1.9	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	7.0	5.3	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Examine products or work to verify conformance to specifications	15
Load or unload material or workpiece into machinery	34
Measure, weigh, or count products or materials	17
Monitor production machinery/equipment operation to detect problems	27
Move or fit heavy objects	8
Operate ore refining/foundry equipment/machinery	84
Perform safety inspections in manufacturing or industrial setting	33
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022) Associated Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.